

CUSTOMER NUMBER 25268**INFORMATION DISCLOSURE STATEMENT LISTING SHEET****Information Cited By Applicant(s) That May Be Material To
The Prosecution Of The Subject Application**

Applicants: George et al. Attorney Docket No. BIOL0123

Serial No.: 10/593,016 Group Art Unit: 2624

Filed: September 14, 2006 Examiner: Heidemann, Jason E.

Confirmation No. 5733

Title: METHOD FOR IMAGING AND DIFFERENTIAL ANALYSIS OF CELLS

U.S. PATENT DOCUMENTS

*Examiner <u>Initial</u>	<u>ID</u>	<u>Document No.</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	<u>Sub-Class</u>
	US1	2009/0202130	8/13/2009	George et al.	382	133
	US2	7,315,357	1/1/2008	Ortyn et al.	356	73
	US3	7,221,457	5/22/2007	Jorgenson et al.	356	445
	US4	7,190,832	3/13/2007	Frost et al.	382	173
	US5	7,180,673	2/20/2007	Dowski, Jr.	359	637
	US6	2006/0257884	11/16/2006	Brawley et al.	435	6
	US7	2006/0246481	11/2/2006	Finch et al.	435	6
	US8	7,087,877	8/8/2006	Ortyn et al.	250	201.2
	US9	7,079,708	7/18/2006	Riley et al.	382	294
	US10	7,006,710	2/28/2006	Riley et al.	382	294
	US11	6,975,400	12/13/2005	Ortyn et al.	356	419
	US12	6,947,136	9/20/2005	Ortyn et al.	356	338
	US13	6,947,128	9/20/2005	Basiji et al.	356	73
	US14	6,934,408	8/23/2005	Frost et al.	382	129
	US15	6,927,922	8/9/2005	George et al.	359	708
	US16	6,906,792	6/14/2005	Ortyn et al.	356	28.5
	US17	6,875,973	4/5/2005	Ortyn et al.	250	201.3
	US18	6,873,733	3/29/2005	Dowski, Jr.	382	232
	US19	6,778,263	8/17/2004	Ortyn et al.	356	28
	US20	6,763,149	7/13/2004	Riley et al.	382	294
	US21	6,727,066	4/27/2004	Kaser	435	6
	US22	6,716,588	4/6/2004	Sammak et al.	435	7.23
	US23	6,707,551	3/16/2004	Ortyn et al.	356	338
	US24	6,671,044	12/30/2003	Ortyn et al.	356	326
	US25	6,620,591	9/16/2003	Dunlay et al.	435	7.2

U.S. PATENT DOCUMENTS

*Examiner <u>Initial</u>	<u>ID</u>	<u>Document No.</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	<u>Sub-Class</u>
	US26	6,618,140	9/9/2003	Frost et al.	356	317
	US27	6,608,682	8/19/2003	Ortyn et al.	356	419
	US28	6,608,680	8/19/2003	Basiji et al.	356	338
	US29	6,583,865	6/24/2003	Basiji et al.	356	73
	US30	6,580,504	6/17/2003	Basiji et al.	356	338
	US31	2003/0104439	6/5/2003	Finch	435	6
	US32	6,563,583	5/13/2003	Ortyn et al.	356	400
	US33	6,549,664	4/15/2003	Daiber et al.	382	232
	US34	6,548,259	4/15/2003	Ward et al.	435	6
	US35	6,532,061	3/11/2003	Ortyn et al.	356	28
	US36	6,522,781	2/18/2003	Norikane et al.	382	203
	US37	6,510,319	1/21/2003	Baum et al.	455	442
	US38	6,507,391	1/14/2003	Riley et al.	356	28
	US39	6,473,176	10/29/2002	Basiji et al.	356	326
	US40	2002/0146734	10/10/2002	Ortyn et al.	435	6
	US41	2002/0126275	9/12/2002	Johnson	356	317
	US42	6,381,363	4/30/2002	Murching et al.	382	164
	US43	6,330,361	12/11/2001	Mitchell et al.	382	211
	US44	6,330,081	12/11/2001	Scholten	358	463
	US45	6,259,807	7/10/2001	Ravkin	381	133
	US46	2001/0006416	7/5/2001	Johnson	356	73
	US47	6,256,096	7/3/2001	Johnson	356	335
	US48	6,249,341	6/19/2001	Basiji et al.	356	73
	US49	6,249,314	6/19/2001	Yamamoto et al.	348	242
	US50	6,229,913	5/8/2001	Nayar et al.	382	154
	US51	6,210,973	4/3/2001	Pettit	436	172
	US52	6,159,686	12/12/2000	Kardos et al.	435	6
	US53	6,156,465	12/5/2000	Cao et al.	430	30
	US54	6,116,739	9/12/2000	Ishihara et al.	353	31
	US55	6,108,082	8/22/2000	Pettipiece et al.	356	301
	US56	6,066,459	5/23/2000	Garini et al.	435	6
	US57	6,014,468	1/11/2000	McCarthy et al.	382	254
	US58	6,007,996	12/28/1999	McNamara et al.	435	6
	US59	6,007,994	12/28/1999	Ward et al.	435	6
	US60	5,986,061	11/16/1999	Petska	530	352
	US61	5,985,549	11/16/1999	Singer et al.	435	6
	US62	5,959,953	9/28/1999	Alon	369	44.41
	US63	5,929,986	7/27/1999	Slater et al.	356	326
	US64	5,926,283	7/20/1999	Hopkins	356	419
	US65	5,900,942	5/4/1999	Spiering	356	400
	US66	5,855,753	1/5/1999	Trau et al.	204	484
	US67	5,848,123	12/8/1998	Strommer	378	98.8
	US68	5,844,670	12/1/1998	Morita et al.	356	124

U.S. PATENT DOCUMENTS

*Examiner <u>Initial</u>	<u>ID</u>	<u>Document No.</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	<u>Sub-Class</u>
	US69	5,831,723	11/3/1998	Kubota et al.	356	73
	US70	Re. 35,868	8/11/1998	Kosaka	250	574
	US71	5,764,792	6/9/1998	Kennealy	382	133
	US72	5,760,899	6/2/1998	Eismann	356	326
	US73	5,754,291	5/19/1998	Kain	356	338
	US74	5,733,721	3/31/1998	Hemstreet III et al.	435	6
	US75	5,695,934	12/9/1997	Brenner	435	6
	US76	5,686,960	11/11/1997	Sussman et al.	348	335
	US77	5,674,743	10/7/1997	Ulmer	435	287.2
	US78	5,644,388	7/1/1997	Maekawa et al.	356	73
	US79	5,633,503	5/27/1997	Kosaka	250	458.1
	US80	5,625,048	4/29/1997	Tsien et al.	536	23.4
	US81	5,621,460	4/15/1997	Hatlestad et al.	348	265
	US82	5,596,401	1/21/1997	Kusuzawa	356	23
	US83	5,568,315	10/22/1996	Shuman	359	487
	US84	5,548,395	8/20/1996	Kosaka	356	73
	US85	5,548,349	8/20/1996	Mizuguchi et al.	348	766
	US86	5,471,294	11/28/1995	Ogino	356	73
	US87	5,459,240	10/17/1995	Foxwell et al.	530	328
	US88	5,444,527	8/22/1995	Kosaka	356	73
	US89	5,436,144	7/25/1995	Stewart et al.	435	91.2
	US90	5,422,712	6/6/1995	Ogino	356	73
	US91	5,351,311	9/27/1994	Rogers et al.	382	45
	US92	5,272,354	12/21/1993	Kosaka	250	574
	US93	5,257,182	10/26/1993	Luck et al.	364	413.1
	US94	5,247,340	9/21/1993	Ogino	356	73
	US95	5,247,339	9/21/1993	Ogino	356	73
	US96	5,159,642	10/27/1992	Kosaka	382	134
	US97	5,159,398	10/27/1992	Maekawa et al.	356	73
	US98	5,159,397	10/27/1992	Kosaka et al.	356	73
	US99	5,153,916	10/6/1992	Inagaki et al	382	4
	US100	5,141,609	8/25/1992	Sweedler et al.	204	180.1
	US101	5,122,453	6/16/1992	Martin et al.	435	7.24
	US102	5,096,807	3/17/1992	Leaback	435	6
	US103	4,857,453	8/15/1989	Ullman et al.	435	7
	US104	4,845,197	7/4/1989	Petersen et al.	530	387
	US105	4,786,165	11/22/1988	Yamamoto et al.	356	23
	US106	4,777,525	10/11/1988	Preston, Jr.	358	102
	US107	4,770,992	9/13/1988	Van den Engh et al.	435	6
	US108	4,737,932	4/12/1988	Baba	364	900
	US109	4,703,017	10/27/1987	Campbell et al.	436	501
	US110	4,677,680	6/30/1987	Harima et al.	382	1
	US111	4,662,742	5/5/1987	Chupp	356	39

U.S. PATENT DOCUMENTS

*Examiner <u>Initial</u>	<u>ID</u>	<u>Document No.</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	<u>Sub-Class</u>
	US112	4,635,293	1/6/1987	Watanabe	382	44
	US113	4,313,734	2/2/1982	Leuvering	23	230
	US114	3,922,069	11/25/1975	Kishikawa et al.	350	173
	US115	3,586,760	6/22/1971	Dillenburger	348	339
	US116	3,555,280	1/12/1971	Richards, Jr.	250	201

FOREIGN PATENT DOCUMENTS

*Examiner <u>Initial</u>	<u>ID</u>	<u>Document No.</u>	<u>Publication Date</u>	<u>Country</u>	<u>Class</u>	<u>Sub-Class</u>	<u>Translation?</u>
	F1	WO 05/98430	10/20/2005	PCT	G01N	33/50	n/a
	F2	WO 05/90945	9/29/2005	PCT	G01N	15/14	n/a
	F3	EP 1 316 793	6/4/2003	EP	G01N	21	n/a
	F4	WO 02/79391	10/10/2002	PCT	C12N		n/a
	F5	WO 02/73200	9/19/2002	PCT	G01N	33/53	n/a
	F6	WO 02/35474	5/2/2002	PCT	G06T	7/00	n/a
	F7	WO 02/18537	3/7/2002	PCT	C12N		n/a
	F8	WO 02/17622	2/28/2002	PCT	H04N	5/232	n/a
	F9	WO 01/46675	6/28/2001	PCT	G01N	15/14	n/a
	F10	WO 01/11341	2/15/2001	PCT	G01N	15/14	n/a
	F11	WO 00/42412	7/20/2000	PCT	G01N	15/02	n/a
	F12	WO 00/14545	3/16/2000	PCT	G01N	33/58	n/a
	F13	WO 00/06989	2/10/2000	PCT	G01N		n/a
	F14	WO 99/64592	12/16/1999	PCT	C12N		n/a
	F15	EP 0 950 890	10/20/1999	EP	G01N	15/14	n/a
	F16	WO 99/24458	5/20/1999	PCT	C07K	1/10	n/a
	F17	WO 98/53300	11/26/1998	PCT	G01N	21/00	n/a
	F18	WO 98/53093	11/26/1998	PCT	C12Q	1/00	n/a
	F19	WO 97/26333	7/24/1997	PCT	C12N	15/12	n/a
	F20	EP 0 372 707	3/6/1996	EP	C07K	14/00	n/a
	F21	WO 95/20148	7/27/1995	PCT	G01N	21/64	n/a
	F22	EP 0 281 327	6/30/1993	EP	G01N	33/546	n/a
	F23	WO 90/10715	9/20/1990	PCT	C12Q	1/68	n/a
	F24	EP 0 280 559	8/31/1988	EP	G01N	33/546	n/a
	F25	WO 88/08534	11/3/1988	PCT	G01N	33/543	n/a
	F26	EP 0 154 404	9/11/1985	EP	G06F	15/68	n/a

OTHER INFORMATION

O1 Amann et al., "Fluorescent-Oligonucleotide Probing of Whole Cells for Determinative, Phylogenetic, and Environmental Studies in Microbiology," *Journal of Bacteriology* Vol. 172, No. 2: 762-770, February 1990.

OTHER INFORMATION

_____ O2 Arkesteijn et al., "Chromosome Specific DNA Hybridization in Suspension for Flow Cytometric Detection of Chimerism in Bone Marrow Transplantation and Leukemia," *Cytometry* 19: 353-360, April 1995.

_____ O3 Bains et al., "Flow Cytometric Quantitation of Sequence-Specific mRNA in Hemopoietic Cell Suspension by Primer-Induced *in Situ* (PRINS) Fluorescent Nucleotide Labeling," *Experimental Cell Research* 208: 321-326, September 1993.

_____ O4 Barren III et al., "Method for Identifying Prostate Cells in Semen Using Flow Cytometry," *The Prostate* 36: 181-188, 1998.

_____ O5 Bauman et al., "Flow Cytometric Detection of Ribosomal RNA in Suspended Cells by Fluorescent In Situ Hybridization," *Cytometry* 9: 517-524, 1988.

_____ O6 Baumgartner et al., "Automated Evaluation of Frequencies of Aneuploid Sperm by Laser-Scanning Cytometry (LSC)," *Cytometry* 44: 156-160, 2001.

_____ O7 Ben-Eliezer et al., "All-optical extended depth of field imaging system," *Journal of Optics A: Pure and Applied Optics* 5: S164-S169, 2003.

_____ O8 Biggs et al., "Acceleration of iterative image restoration algorithms" *Applied Optics* Vol. 36, No. 8: 1766-1775, March 10, 1997.

_____ O9 Boyle et al., "Isolation and Initial Characterization of a Large Repeat Sequence Element Specific to Mouse Chromosome 8," *Genomics* Vol. 12, No. 3: 517-525, 1992.

_____ O10 Callet-Bauchu et al., "Distribution of the cytogenetic abnormality +i(3)(q10) in persistent polyclonal B-cell lymphocytosis: a FICTION study in three cases," *British Journal of Haematology* 99: 531-536, December 1997.

_____ O11 Ding et al., "Characterization and Quantitation of NF- κ B Nuclear Translocation Induced by Interleukin-1 and Tumor Necrosis Factor- α ," *The Journal of Biological Chemistry* Vol. 273, No. 44: 28897-28905, October 30, 1998.

_____ O12 Disteche et al., "Isolation and characterization of two repetitive DNA fragments located near the centromere of the mouse X chromosome," *Cytogenetics and Cell Genetics* 39: 262-268, 1985.

_____ O13 Dragowska et al., "Measurement of DNA repeat sequence by flow cytometry," *Cytometry* Supplement 7: 51, October 1994.

_____ O14 Engvall, Eva. "Enzyme Immunoassay ELISA and EMIT," *Methods in Enzymology* Vol. 70, Part A: 419-439, 1980.

_____ O15 Fernandez-Lago et al., "Fluorescent Whole-Cell Hybridization with 16S rRNA-Targeted Oligonucleotide Probes To Identify *Brucella* spp. by Flow Cytometry," *Journal of Clinical Microbiology* Vol. 38, No. 7: 2768-2771, July 2000.

OTHER INFORMATION

_____ O16 George et al., "Extended depth of field using a logarithmic asphere" *Journal of Optics A: Pure and Applied Optics* 5: S157-S163, 2003.

_____ O17 George et al., "Distinguishing Modes of Cell Death Using the ImageStream® Multispectral Imaging Flow Cytometer," *Cytometry Part A* 59A: 237-245, 2004.

_____ O18 George et al., "Quantitative measurement of nuclear translocation events using similarity analysis of multispectral cellular images obtained in flow," *Journal of Immunological Methods* 311: 117-129, 2006.

_____ O19 Gordy et al., "Visualization of Antigen Presentation by Actin-Mediated Targeting of Glycolipid-Enriched Membrane Domains to the Immune Synapse of B cell APCs." *Journal of Immunology* Vol. 172, No. 4: 2030-2038, February 15, 2004.

_____ O20 Hecht, Eugene. "Optics 4th ed." Addison-Wesley Longman, Inc., XP-002465391, ISBN: 0-8053-8566-5, 2002.

_____ O21 Hultdin et al., "Telomere analysis by fluorescence *in situ* hybridization and flow cytometry," *Nucleic Acids Research* Vol. 26, No. 16: 3651-3656, August 15, 1998.

_____ O22 Kubota et al., "Flow Cytometer and Imaging Device Used in Combination." *Cytometry* 21: 129-132, 1995.

_____ O23 Kubota, Fumio. "Analysis of red cell and platelet morphology using an imaging-combined flow cytometer." *Clin. Lab. Haem.* 25: 71-76, 2003.

_____ O24 Lauzon et al., "Flow Cytometric Measurement of Telomere Length," *Cytometry* 42: 159-164, June 2000.

_____ O25 Levron et al., "Sperm chromosome abnormalities in men with severe male factor infertility who are undergoing in vitro fertilization with intracytoplasmic sperm injection," *Fertility and Sterility* Vol. 76, No. 3: 479-484, September 2001.

_____ O26 Lowe et al., "Aneuploid epididymal sperm detected in chromosomally normal and Robertsonian translocation-bearing mice using a new three-chromosome FISH method," *Chromosoma* 105: 204-210, 1996.

_____ O27 Majno et al., "Apoptosis, Oncosis, and Necrosis *An Overview of Cell Death*," *American Journal of Pathology* Vol. 146, No. 1: 3-15, January 1, 1995.

_____ O28 Martin et al., "Detection of aneuploidy in human interphase spermatozoa by fluorescence *in situ* hybridization (FISH)," *Cytogenetics and Cell Genetics* 64: 23-26, 1993.

_____ O29 Nautiyal et al., "17 β -Estradiol induces nuclear translocation of CrkL at the window of embryo implantation," *Biochemical and Biophysical Research Communications* 318: 103-112, 2004.

OTHER INFORMATION

_____ O30 Ong, Sim Heng, "Development of a System for Imaging and Classifying Biological Cells in a Flow Cytometer," Doctor of Philosophy Thesis, University of Sydney, School of Electrical Engineering, August, 1985.

_____ O31 Ong et al., "Development of an Image Flow Cytometer," *Analytical and Quantitative Cytology and Histology*. XIVth International Conference on Medical and Biological Engineering and the VIIth International Conference on Medical Physics, Finland: 375-382, August 1987.

_____ O32 Ong et al., "Optical Design in a Flow System For Imaging Cells," *Sciences in Medicine*, Vol. 14, No. 2: 74-80, 1991.

_____ O33 Ong et al., "Analysis of MTF Degradation in the Imaging of Cells in a Flow System," *International Journal of Imaging Systems & Technology* 5: 243-250, 1994.

_____ O34 Ortyn et al., "Extended Depth of Field Imaging for High Speed Cell Analysis" *Cytometry Part A* 71A: 215-231, 2007.

_____ O35 Pala et al., "Flow cytometric measurement of intracellular cytokines," *Journal of Immunological Methods* 243: 107-124, 2000.

_____ O36 Pang et al., "Detection of aneuploidy for chromosomes 4, 6, 7, 8, 9, 10, 11, 12, 13, 17, 18, 21, X and Y by fluorescence in-situ hybridization in spermatozoa from nine patients with oligoasthenoteratozoospermia undergoing intracytoplasmic sperm injection," *Human Reproduction* Vol. 14, No. 5: 1266-1273, 1999.

_____ O37 Patterson et al., "Detection of HIV-1 DNA and Messenger RNA in Individual Cells by PCR-Driven In Situ Hybridization and Flow Cytometry," *Science* 260: 976-979, May 14, 1993.

_____ O38 Perreault et al., "The Role of Disulfide Bond Reduction during Mammalian Sperm Nuclear Decondensation *In Vivo*," *Developmental Biology* 101: 160-167, 1984.

_____ O39 Pinkel et al., "Cytogenetic analysis using quantitative, high sensitivity, fluorescence hybridization," *Proceedings of the National Academy of Sciences: Genetics* 83: 2934-2938, 1986.

_____ O40 Pollice et al., "Sequential Paraformaldehyde and Methanol Fixation for Simultaneous Flow Cytometric Analysis of DNA, Cell Surface Proteins, and Intracellular Proteins," *Cytometry* 13: 432-444, 1992.

_____ O41 Ried et al., "Simultaneous visualization of seven different DNA probes by *in situ* hybridization using combinatorial fluorescence and digital imaging microscopy," *Proceedings of the National Academy of Sciences: Genetics* 89: 1388-1392, February 1992.

OTHER INFORMATION

_____ 042 Robbins et al., "Aneuploidy in sperm of Hodgkin's disease patients receiving NOVP chemotherapy," *The American Journal of Human Genetics* Vol. 55, No. 3 – Supplement: A68 (371), September 1994.

_____ 043 Robbins et al., "Detection of Aneuploid Human Sperm by Fluorescence In Situ Hybridization: Evidence for a Donor Difference in Frequency of Sperm Disomic for Chromosomes I and Y," *The American Journal of Human Genetics*, 52: 799-807, 1993.

_____ 044 Robbins et al., "Three-probe Fluorescence *in situ* Hybridization to Assess Chromosome X, Y, and 8 Aneuploidy in Sperm of 14 Men from Two Healthy Groups: Evidence for a Paternal Age Effect on Sperm Aneuploidy," *Reproduction, Fertility and Development* 7: 799-809, 1995.

_____ 045 Robbins et al., "Use of Fluorescence In Situ Hybridization (FISH) To Assess Effects of Smoking, Caffeine, and Alcohol on Aneuploidy Load in Sperm of Healthy Men," *Environmental and Molecular Mutagenesis* 30: 175-183, 1997.

_____ 046 Rufer et al., "Telomere length dynamics in human lymphocyte subpopulations measured by flow cytometry," *Nature Biotechnology* 16: 743-747, August 1998.

_____ 047 Salzman et al., "Light Scatter: Detection and Usage," *Current Protocols in Cytometry* Supplement 9: 1.13.1-1.138.8, 1999.

_____ 048 Satoh et al., "Small Aggregates of Platelets Can Be Detected Sensitively by a Flow Cytometer Equipped With an Imaging Device: Mechanisms of Epinephrine-Induced Aggregation and Antiplatelet Effects of Beraprost." *Cytometry* 48: 194-201, 2002.

_____ 049 Schmid et al., "Evaluation of inter-scorer and inter-laboratory reliability of the mouse epididymal sperm aneuploidy (m-ESA) assay," *Mutagenesis* Vol. 16, No. 3: 189-195, 2001.

_____ 050 Schmid et al., "Simultaneous Flow Cytometric Analysis of Two Cell Surface Markers, Telomere Length, and DNA Content," *Cytometry* 49: 96-105, 2002.

_____ 051 Schwerin et al., "Quantification of Y Chromosome Bearing Spermatozoa of Cattle Using In Situ Hybridization," *Molecular Reproduction and Development* 30: 39-43, 1991.

_____ 052 Shi et al., "Aneuploidy in human sperm: a review of the frequency and distribution of aneuploidy, effects of donor age and lifestyle factors," *Cytogenetics and Cell Genetics* 90: 219-226, 2000.

_____ 053 Timm et al., "Amplification and Detection of a Y-Chromosome DNA Sequence by Fluorescence In Situ Polymerase Chain Reaction and Flow Cytometry Using Cells in Suspension," *Cytometry (Communications in Clinical Cytometry)* 22: 250-255, 1995.

OTHER INFORMATION

_____ 054 Timm et al., "Fluorescent *In Situ* Hybridization En Suspension (FISHES) Using Digoxigenin-qLabeled Probes and Flow Cytometry," *Biotechniques* Vol. 12, No. 3: 362-367, 1992.

_____ 055 Trask et al., "Fluorescence *in situ* hybridization to interphase cell nuclei in suspension allows flow cytometric analysis of chromosome content and microscopic analysis of nuclear organization," *Human Genetics* 78:251-259, 1988.

_____ 056 Tucker et al., "Extended depth of field and aberration control for inexpensive digital microscope systems" *Optics Express* Vol. 4, No. 11: 467-474, May 24, 1999.

_____ 057 van Dekken et al., "Flow Cytometric Quantification of Human Chromosome Specific Repetitive DNA Sequences by Single and Bicolor Fluorescent *In Situ* Hybridization to Lymphocyte Interphase Nuclei," *Cytometry* 11: 153-164, 1990.

_____ 058 van den Berg et al., "Detection of Y Chromosome by *In situ* Hybridization in Combination with Membrane Antigens by Two-Color Immunofluorescence," *Laboratory Investigation* Vol. 64, No.5: 623-628, 1991.

_____ 059 Wang et al., "A Novel Apoptosis Research Method With Imaging-Combined Flow Cytometer and HITC OR IR-125 Staining," *Cytometry (Clinical Cytometry)* 50: 267-274, 2002.

_____ 060 Weber-Matthieson et al., "Rapid immunophenotypic characterization of chromosomally aberrant cells by the new FICTION method," *Cytogenetics Cell Genetics* 63: 123-125, 1993.

_____ 061 Weber-Matthieson et al., "Simultaneous Fluorescence Immunophenotyping and Interphase Cytogenetics: A Contribution to the Characterization of Tumor Cells," *Journal of Histochemistry and Cytochemistry* Vol. 40, No. 2: 171-175, 1992.

_____ 062 Wietzorrekk et al., "A New Multiparameter Flow Cytometer: Optical and Electrical Cell Analysis in Combination With Video Microscopy in Flow," *Cytometry* 35: 291-301, 1999.

_____ 063 Wyrobek et al., "Smokers produce more aneuploid sperm than non-smokers," *The American Society of Human Genetics, 45th Annual Meeting*, A131: 737, October 24-28, 1995.

_____ 064 Wyrobek et al., "Detection of Sex Chromosomal Aneuploidies X-X, Y-Y, and X-Y, in Human Sperm Using Two-Chromosome Fluorescence *In Situ* Hybridization," *American Journal of Medical Genetics* 53: 1-7, 1994.

_____ 065 Wyrobek et al., "Fluorescence *In Situ* Hybridization to Y Chromosomes in Decondensed Human Sperm Nuclei," *Molecular Reproduction and Development* 27: 200-208, 1990.

/Jason Heidemann/

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Date

*Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Documents cited herein marked with an “*” have not previously been cited in a priority application relied upon herein for an earlier filing date. Copies of any so-noted Foreign Patent Documents and Other Information are enclosed for the Examiner’s use.

MCK:elm
3/11/10